

ABSTRACT OF THE DISCLOSURE

A polygonal member engaging device includes a plurality of ridges and grooves defined in an inner periphery of a passage of the engaging device. The ridges and the grooves are alternatively arranged from each other in the inner periphery of the passage of the device. Each ridge has an enlarged portion extending radially outward therefrom. A ratio for a width between the two enlarged portions of two adjacent ridges and a width of a bottom of each groove being 1:1.2.